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depositing, developing and patterning a photoresist layer over the semiconductor device to provide an opening over the under bump metallurgy and aligned with the contact pad;

depositing a first electrically conductive material into the opening in the photoresist layer;

depositing a second electrically conductive material over the first electrically conductive material and over a portion of the photoresist layer;

applying a flux agent to the top surface of the second electrically conductive material;

heating the semiconductor device to remove any oxide on the second electrically conductive material;

removing the photoresist layer after the hard bake step;

removing excess under bump metallurgy to leave a portion of the under bump metallurgy overlying the contact pad and underneath the first electrically conductive material;

dipping a portion of the semiconductor device in an electroless plating solution;

removing the semiconductor device from the electroless plating solution to provide a third electrically conductive material deposited on the second electrically conductive material; and

reflowing the electrically conductive materials to provide a bump of improved height on the semiconductor device.

12. A method as set forth in claim 11 further comprising the step of sputter cleaning the semiconductor device prior to the step of depositing an under bump metallurgy over the semiconductor device.

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13. A method as set forth in claim 11 wherein the first electrically conductive material comprises solder.

14. A method as set forth in claim 11 wherein the second electrically conductive material comprises copper.

15. A method as set forth in claim 11 wherein the second electrically conductive material comprises nickel.

16. A method as set forth in claim 11 wherein the third electrically conductive material comprises at least one of copper, nickel, silver and gold.

17. A method as set forth in claim 11 wherein the step of depositing a first electrically conductive material comprises electroplating the first electrically conductive material into the opening in the photoresist layer.

18. A method as set forth in claim 17 wherein the first electrically conductive material comprises solder.

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19. A method as set forth in claim 11 wherein the step of depositing a second electrically conductive material comprises electroplating the second electrically conductive material onto the first electrically conductive material.

20. A method as set forth in claim 19 wherein the second electrically conductive material comprises at least one of copper and nickel.